24 April 1962

STAT

STAT

MEMORANDUM FOR:	Chief, Technical Plans & Development Staff
THROUGH:	Acting Chief, Technical Development Branch
SUBJECT:	Image Correlator
piece of equipme gineering concep 2. It is operational use white the correlation of eight correlation whilst the optical that the tests I design of the correlation	two days working with the machine. It is an extremely fine int, and whilst the controls are not perfect in human ents, they are functional and accurate. The correlation indicators mean. The correlation is ment in pairs, using the same master throughout a series closs. It is indicative of the machine's performance that, all alignment as indicated on the screen looked perfect, in which had to be corrected. There is probably a r in the electronic indication versus optical indication accurate.
do this as they as would indicate real	n evaluation program. I am sure are best suited to re thoroughly familiar with the machine. Such work sults that could be expected from a wide range of inputs in a full operator manual showing not only mechanical operational possibilities and limits.
	for such a program would consist of:
a. Gr varying condi	ound pictures which we would supply, taken under many tions and with different films and cameras.
b. Ae:	rial pictures utilizing the
be operational	in June/July.

9 April 1962

HENORANDUM FOR: Chief, Technical Plans & Development Staff

SUBJECT:

Staff Study, "Image Embandment in the Photographic and Photo Interpretation Field"

l. Problem

lange Enhancement is a term now in common use in the photographic interpretation field. However, it has several commotations and the object of this study is to: (a) define the term; and (b) set out a plan for optimam utilization of the techniques available.

2. Pacts

- e. It is a fact that serial photography can be used to reveal sore information than is perceptible when only standard processing is applied to produce a positive rendition of the negative image.
- b. It is a fact that processes other then standard processing which can be applied to make sore information evailable are time-consuming and can not be considered applicable to all recorded images in the way that standard processing is applied. This sainer Image Inhencement a highly selective technique which has to be carefully considered by the FI and the enhancement technicism in terms of necessity and potential.
- c. It is also a fact that so one technique within the enhancement process is a complete answer to any problem which the PI may present. To fully exploit the photography, one, or perhaps all, of the available techniques may be required. This means that the enhancement technicism must be fully aware of the photographic conditions and the capability of his enhancing equipment.

3. Definition

The presented facts define the technique which can, therefore, he stated as follows:

Image inhancement is a general term given to the various techniques which can be applied to photographic imagery on a highly selective basis in order to further reveal information concerning the image, which information is not readily perceptible as a result of standard photographic processing.